

SECRET

RESEARCH AND DEVELOPMENT IN INFORMATION PROCESSING

ACTION COMPONENT(S):

ORD

USER COMPONENT(S):

CIA

OBJECTIVES:

There are three basic objectives associated with this project: the exploration and testing of new techniques in the information processing art aimed toward their eventual inclusion in the day-to-day activities of intelligence analysts, system designers, and their managers; ADP support to R&D activities in the physical and life sciences; and the operation of an in-house laboratory to test the feasibility of techniques being explored on various contractor and in-house projects.

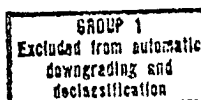
DESCRIPTION:

The Agency maintains a distinct R&D facility in the Science and Technology Directorate, a major component of which has the responsibility for the development of new techniques in the information processing area. Projects in this area are established on the basis of a known or anticipated need within the Agency. Projects in the information processing area are broken roughly into three categories:

-- Organizing, searching, and modeling processes. Projects underway here include the development of storage and retrieval techniques for text and formatted data, the development of integrated systems for on-line support of intelligence analysis, and the development of mathematical models to assist in prediction analysis.

-- Graphic and display processes. Topics of interest here include an on-line processing system for graphic data, pattern recognition methods for graphic data processing, display and transmission of graphic data, and advanced methods for data storage and retrieval.

SECRET



SECRET

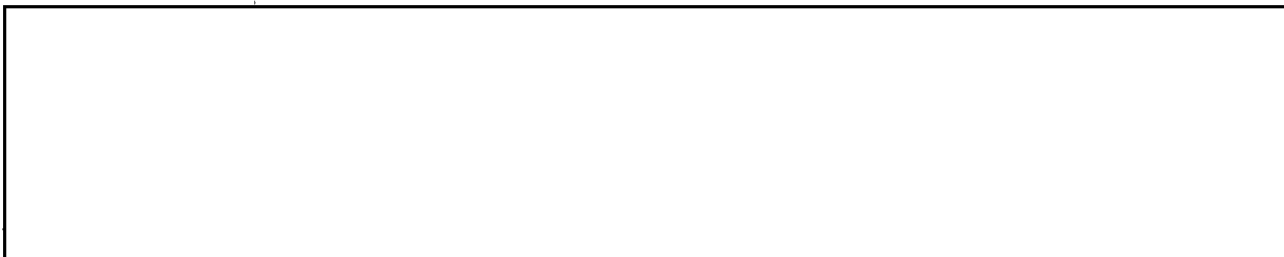
-- Speech, analog, and wave form processes. Specific topics include speech processing, automated pattern recognition and adaptive control, security systems, recording techniques and equipment, and analysis and interpretation methods for analog and wave form data.

An information processing R&D (IPRD) facility is maintained within the R&D organization. It provides a variety of advanced equipment to the experimenter in an environment which is secure and is appropriate to a research organization. The major ADP equipments in the IPRD facility include an IBM 360/40 general purpose computer system, a hybrid computer (consisting of an EAI 8800 analog component in a PDP-7 digital component), a laboratory instrument computer (LINC-8 computer), and an image processing system (including an isodensitracer). Of particular importance are the peripheral devices to provide an experimental facility for testing various aspects of man-machine interaction. These devices range from the simple typewriter variety to a sophisticated console with alphanumeric and line-drawing capability, function keys, background graphics, and sophisticated internal logic (BR-90). A full range of software is available to support the experimenter in use of this equipment.

CHRONOLOGY:

Initiated: FY-65
Operational: FY-66
Operational Evaluation: ?

25X1



SECRET